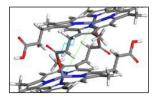
2011 ALCC ASCR Leadership Computing Challenge

at the Argonne Leadership Computing Facility

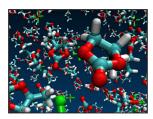
Open to scientists from the research community in academia and industry, the ASCR Leadership Computing Challenge (ALCC) program allocates up to 30 percent of the computational resources at the Argonne Leadership Computing Facility, NERSC and Oak Ridge. Projects in the program are of special interest to the Department, with an emphasis on high-risk, high-payoff simulations in areas directly related to the Department's energy mission, national emergencies, or for broadening the community of researchers capable of using leadership computing resources. Proposals are awarded an ALCC allocation based on a peer review for scientific merit and computational readiness.

For more information about ALCC and other programs at the ALCF, visit: http://www.alcf.anl.gov/collaborations/index.php.



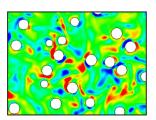
Materials Science Toward Crystal Engineering from First Principles

PI: James Chelikowsky University of Texas at Austin ALCC Award: 12 million hours



Energy Technologies First Principles Calculations of Interfaces in Electrical Energy Storage Systems

PI: Larry Curtiss Argonne National Laboratory ALCC Award: 30 million hours



Engineering

The Interactions Between Vaporizing Liquid Droplets and a Turbulent Flow: Fully Resolved Direct Numerical Simulation

PI: Said Elghobashi University of California, Irvine ALCC Award: 10 million hours



CONTACT ▼

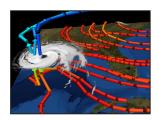
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Chemistry
Electrocatalyst Durability from First Principles Calculations

PI: Jeffrey Greeley Argonne National Laboratory ALCC Award: 20 million hours



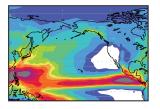
Earth Science Simulating Regional Climate at Convection-permitting Resolution

PI: Greg Holland National Center for Atmospheric Research (NCAR) Earth System Laboratory ALCC Award: 13 million hours



Engineering
Prediction of Supersonic Jet Noise Using Large Eddy Simulation

PI: Parviz Moin Stanford University ALCC Award: 60 million hours



Earth Science Sensitivity and Uncertainty of Precipitation of a Climate Model

PI: Laura Zamboni Argonne National Laboratory ALCC Award: 40 million hours

